



The Prediction Project

The Past and Present of the Future

Alyssa Goodman
Harvard University
Radcliffe Institute for Advanced Study

HOME

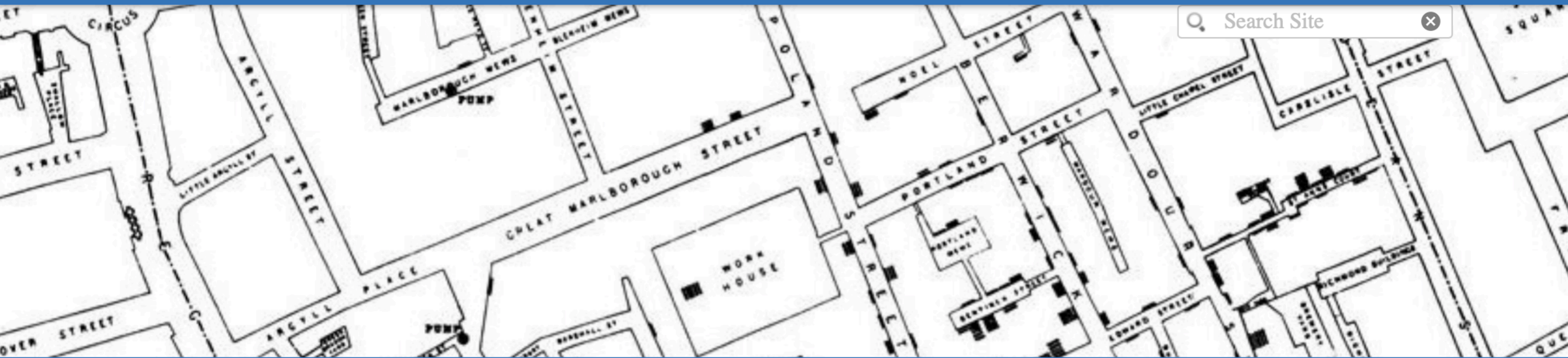
ABOUT

PREDICTION TOPICS

COURSES

COMMENTARY

CREDITS



Prediction Essentials

Take a look at the essential elements of the course, including the framework for predictive systems.



Omens & Oracles

Gain insight into prediction as a human venture by studying the most ancient forms of prediction in Omens and Oracles.



Rise of Theory

Learn how humanity moved from mystical divination practices to genuine, scientific theories to explain natural phenomena.



Modern Prediction

Discover the cutting edge predictive methods and modeling from preminent experts across many fields.



How it all fits together

PREDICTIONX: THE PAST & PRESENT OF THE FUTURE



ESSENTIALS



Omens, Oracles & Prophecies



THE RISE OF THEORY



MODERN PREDICTION

Health Wealth



PREDICTIONX

PREDICTIONX: THE PAST & PRESENT OF THE FUTURE



ESSENTIALS

Predictive Systems Framework

Phenomena → Predictions

Understanding Uncertainty

Study Design

Timelines

Why predict?



Omens, Oracles & Prophecies

Mesopotamian Haruspicy

Roman Augury

Chinese Oracle Bones

Oracle of Delphi

Aztec Rituals

Egyptian Priests

Tarot

The Diviner's Guide

Turkish Tasseography

Maya Spacetime

Yoruba Ifa

Casting Lots

Greek Astronomy

Astrology

Comets of Doom

cross-cultural conversations



THE RISE OF THEORY

Ancient Mesopotamia, Egypt, Greece & Rome

Islamic Science

The Path to Newton

Indian Mathematics
European Renaissance

The Royal Society

Lost without Longitude (Navigation)

Help, I'm Lost!

Tools of the Navigator



MODERN PREDICTION

Health

- ▶ Epidemiology
- ▶ Personal Genomics
- ▶ Population Genetics

Wealth

- ▶ Climate & Wealth
- ▶ Behavioral Economics

The Future of the Future

- ▶ AI, Derek's Day
- ▶ Philosophy
- ▶ Uncertainty

Earth

- ▶ Climate & Energy
- ▶ Climate Policy
- ▶ Tent Tarot
- ▶ Earthquakes

Space

- ▶ Futures of our Universe
- ▶ SETI

Coming Soon

Interactive Resource

video(s)

available on edX

available on LabXchange

WGBH 2008

PREDICTIONX

2011



2021



2014
HarvardX
edX

2020
LabXchange™
Science and learning—connected.



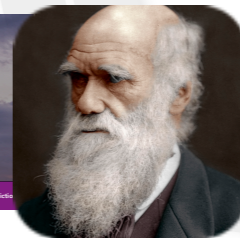
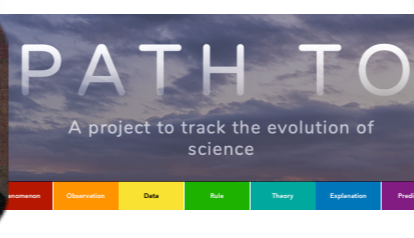
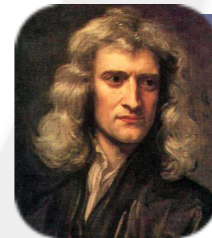
**Harvard College
Program in General Education**
Explore. Expand. Engage.



2019



2015
HARVARD COLLEGE
Freshman Seminar Program



WIX

2016



2018

2019

2020

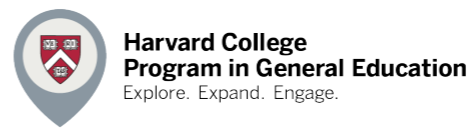


OpenScholar

2017



**The TIMELINE
CONSORTIUM**



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John Snow & Cholera
Cholera Map



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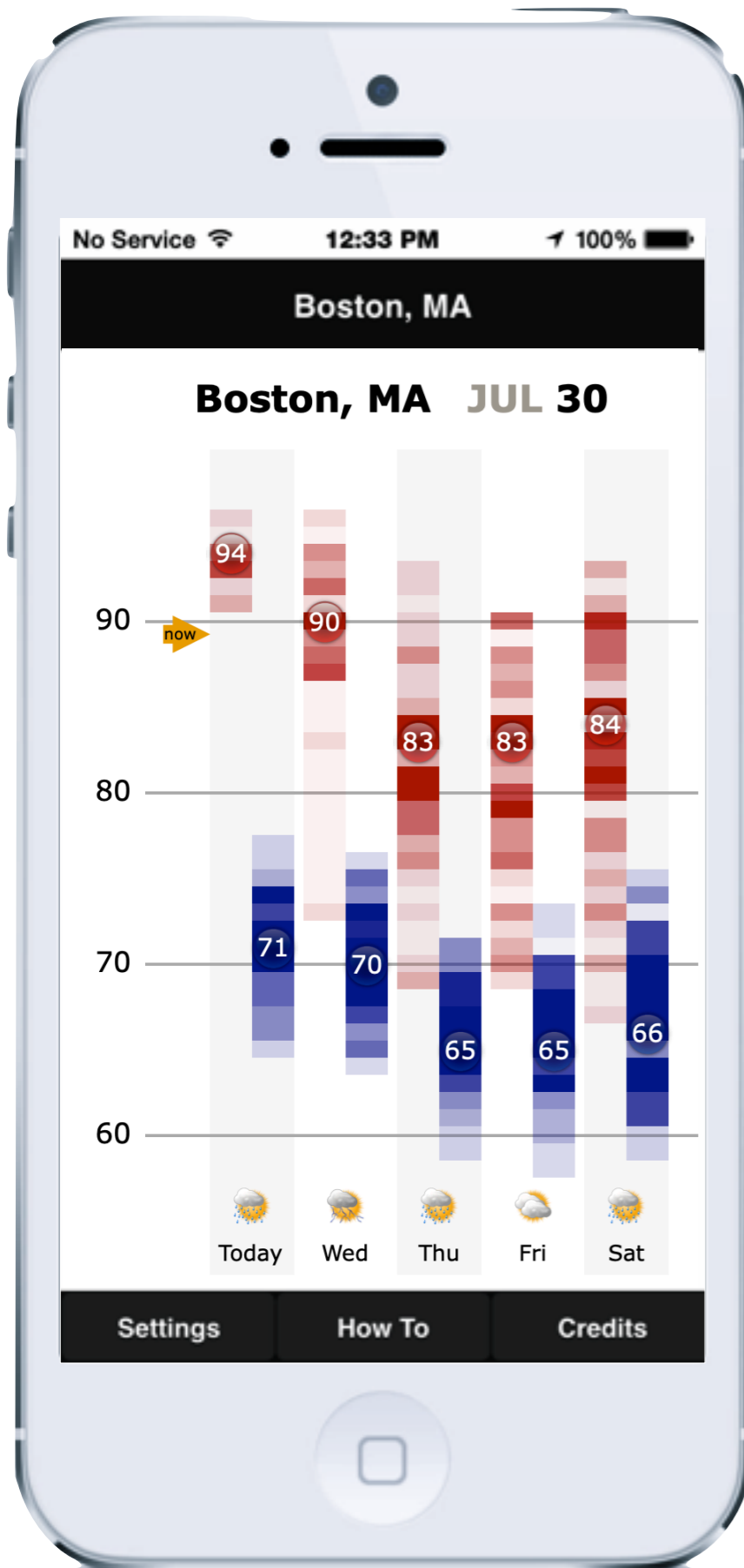
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LabXchange available on LabXchange



"Take A Sweater"




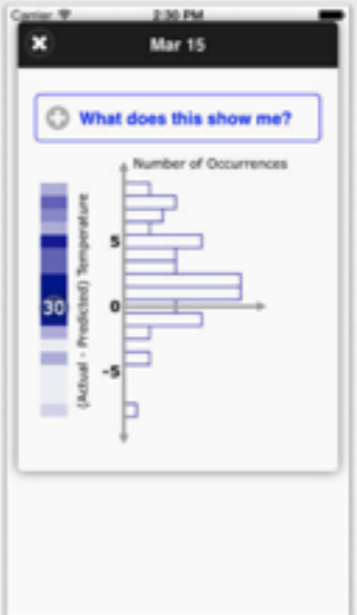
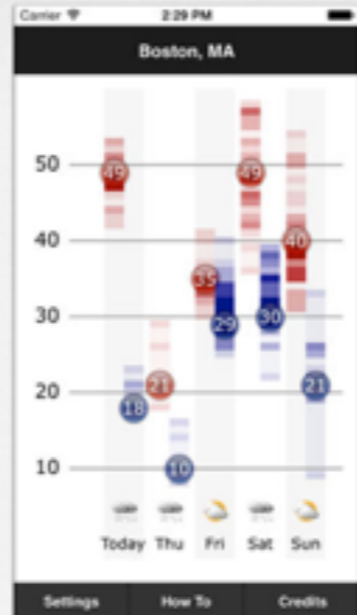
App Store > Weather > Harvard University

Take A Sweater

Harvard University >

Details Ratings and Reviews Related

iPhone Screenshots



No Ratings
Rating: 4+
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Description
NOTE: Take-A-Sweater currently only has data for Boston, MA. This will be changing with the next release.
This App was created in 2012, for use in the Harvard University General Education course "The Art of Numbers," taught by Prof. Alyssa Goodman. The code was written by Bill Barthelmy of Harvard's Academic Technology Group. Historical data were kindly provided by ForecastWatch, a product of Intellovations, LLC. Current five-day weather forecast data are provided by NOAA....

takeasweater.com

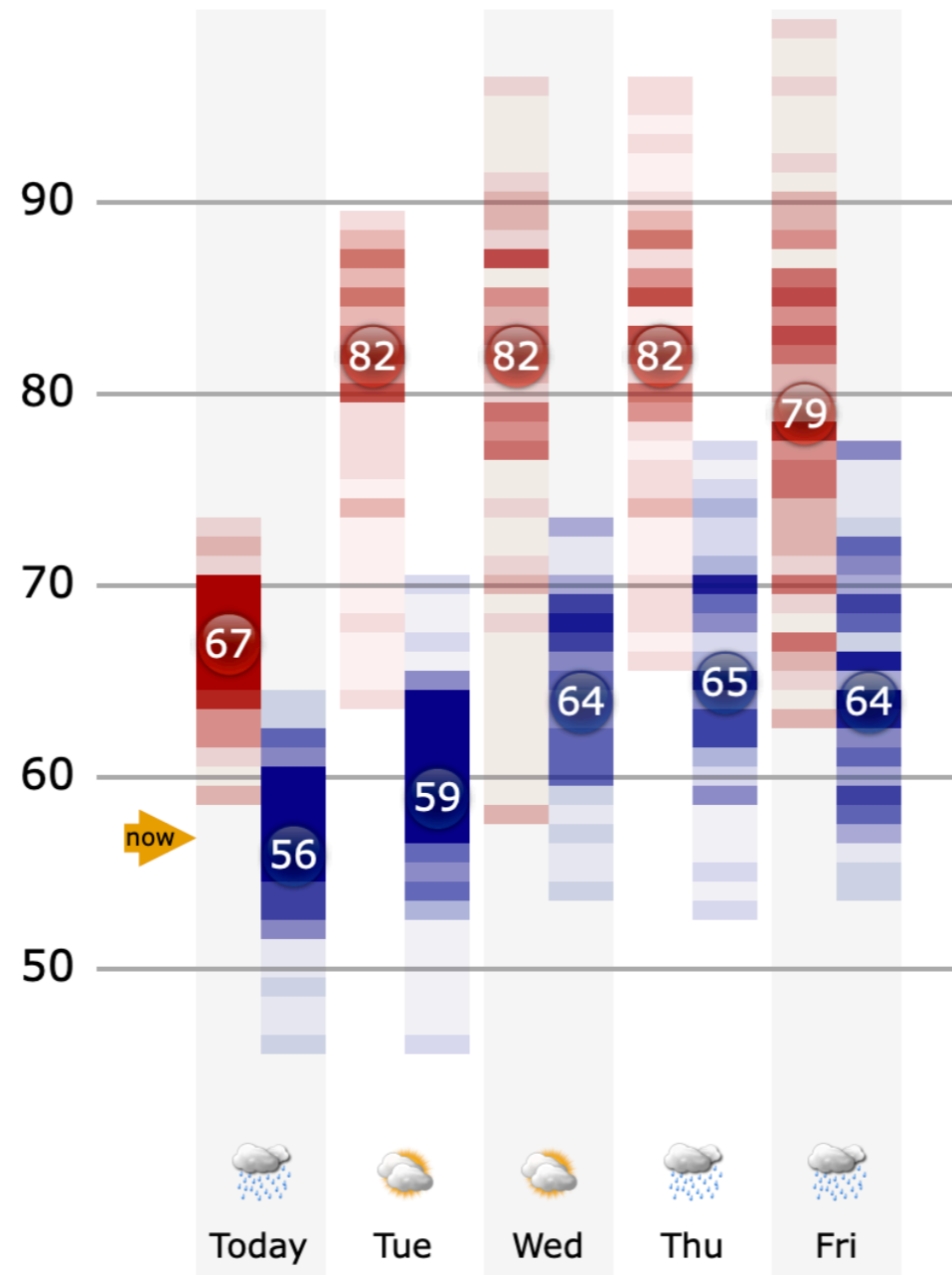
with thanks to Eric **Floehr** of Forecast Watch and Bill **Barthelmy** of HUIT Academic Technology at FAS



takeasweater.com

Forecasting Uncertainty

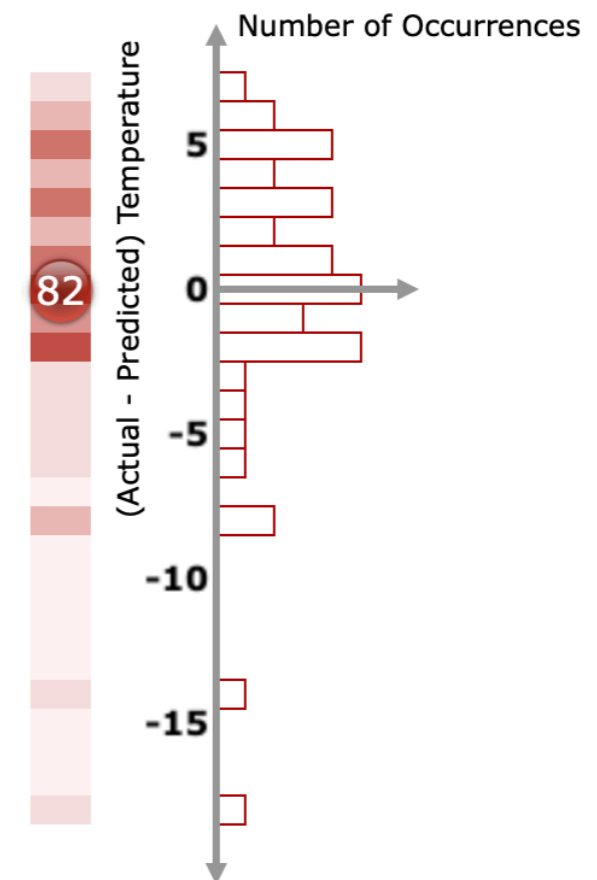
Boston, MA MAY 25



Histogram MAY 26

What does this show me?

The graph below shows a sample "distribution" of how far off temperature predictions have been in the past. Perfect predictions give zero as a difference value. The shaded bars just summarize the graph: the darker the shaded bar, the more predictions fell in that difference zone.

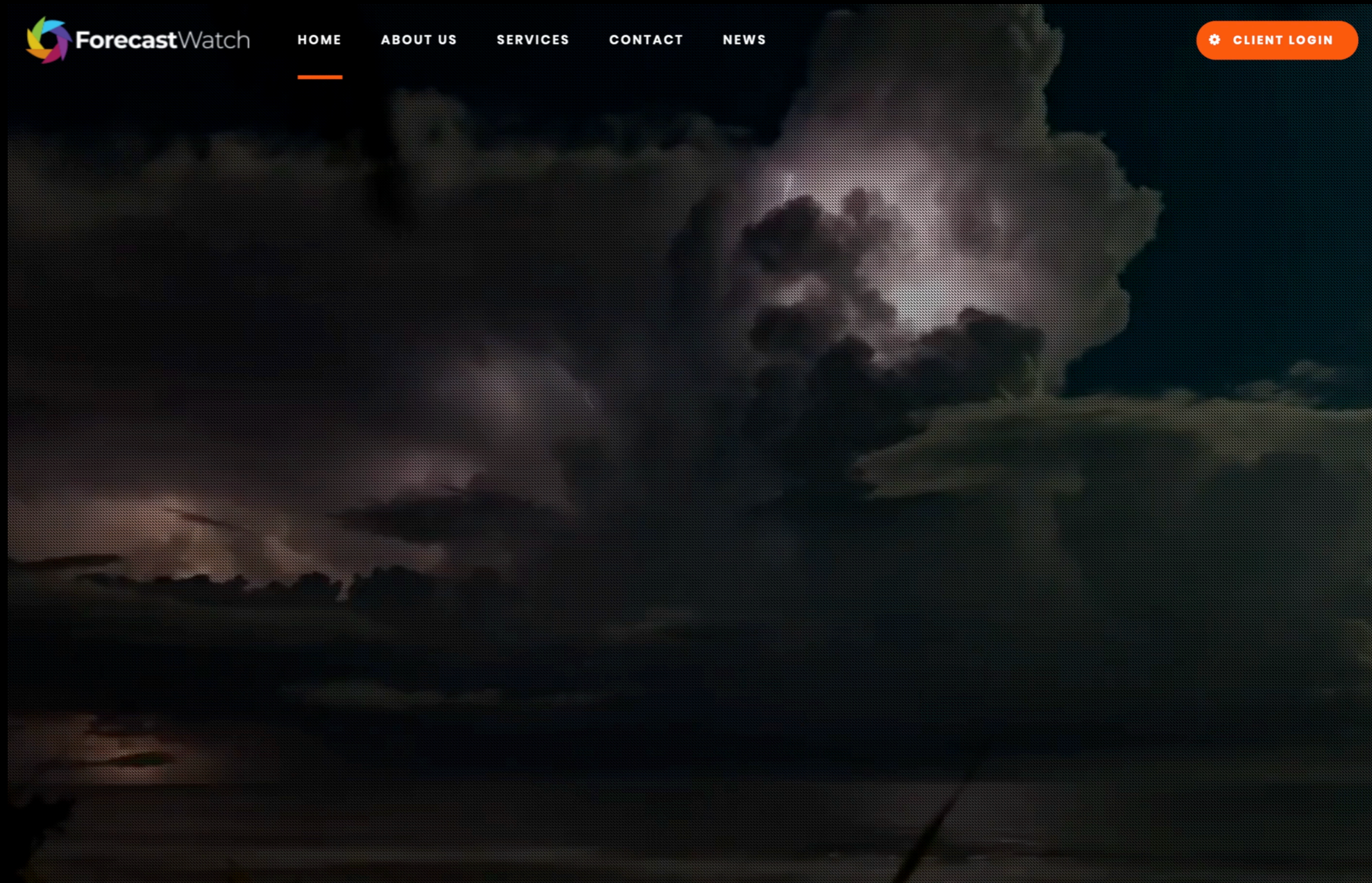


[demo]



The Cost of Uncertainty

forecastwatch.com



with thanks to Eric **Floehr** of Forecast Watch and Bill **Barthelmy** of HUIT Academic Technology at FAS



also: uncertainty and risk are not the same
—more on that to come...

The Cost of
Uncertainty
depends on
the cost of
being wrong.

Beheading (ancient oracles)

People die (pandemics)

World Ends (climate change)

Don't get tenure (astrophysics)



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Coming Soon

Interactive Resource

video(s)

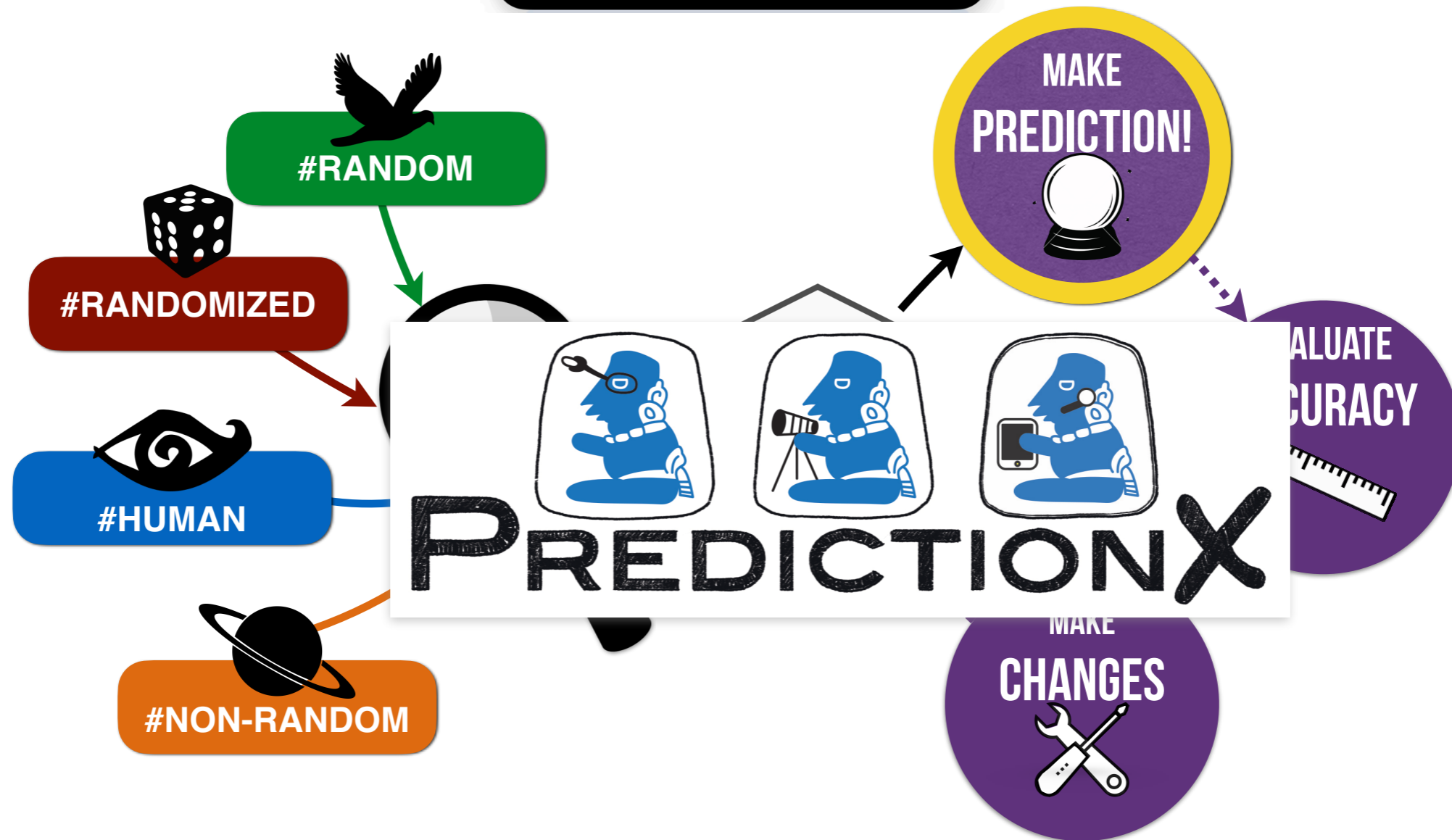
available on edX

available on LabXchange



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ROMAN AUGURY

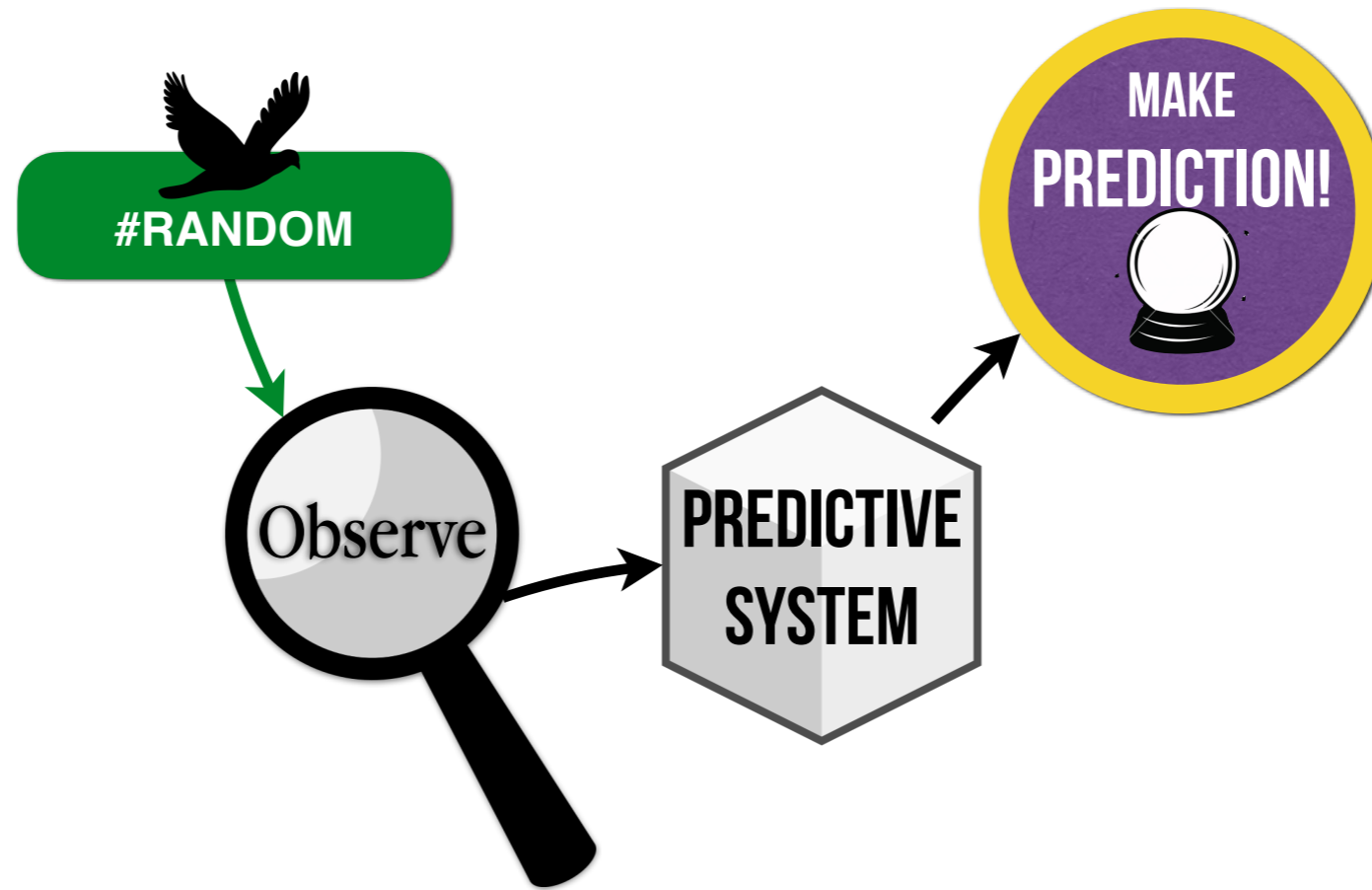
"Senior political officials of the Roman state had to take auspices before any major political event like elections." —Emma Dench

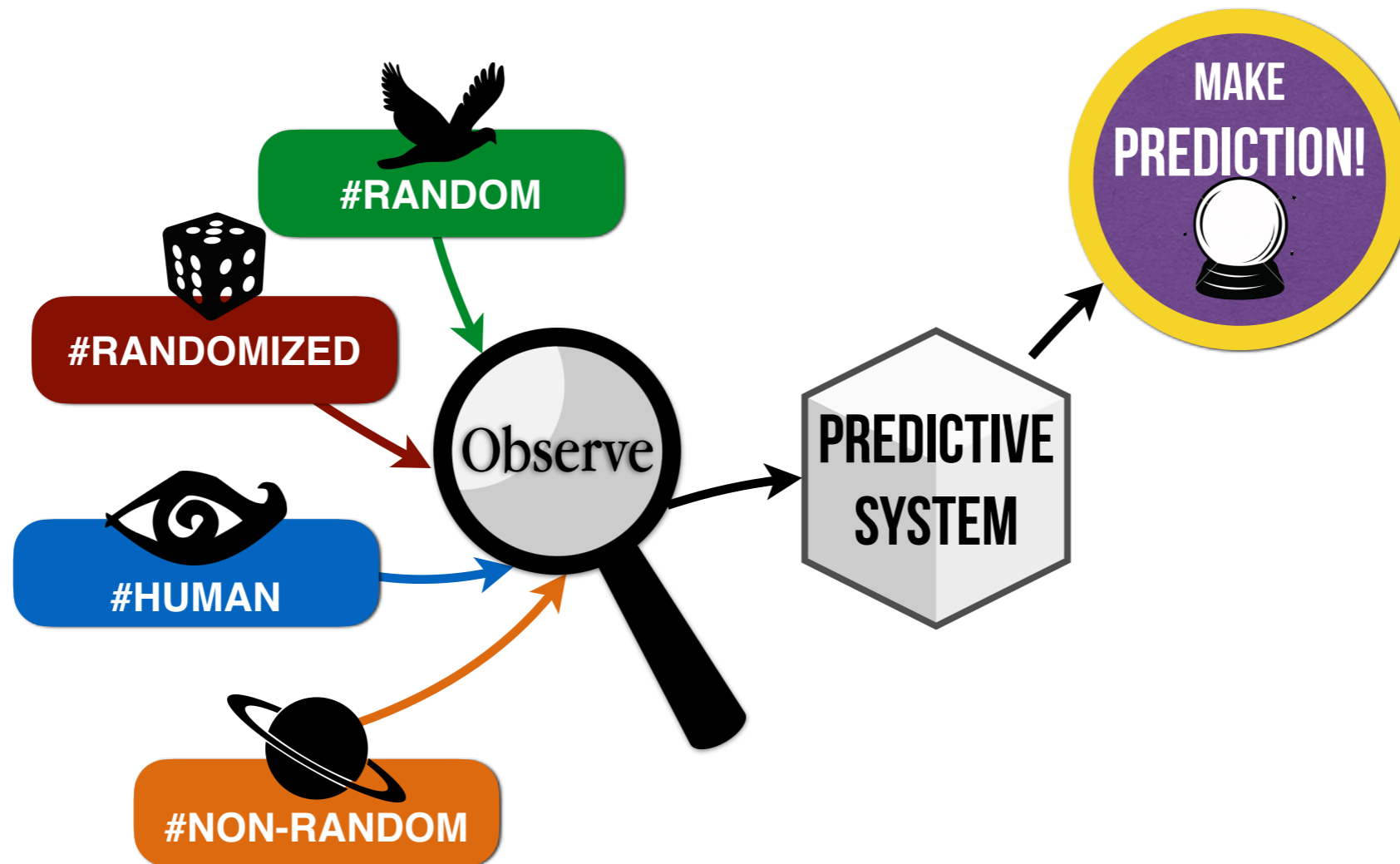


DIVINER'S GUIDE: TABLE OF CONTENTS

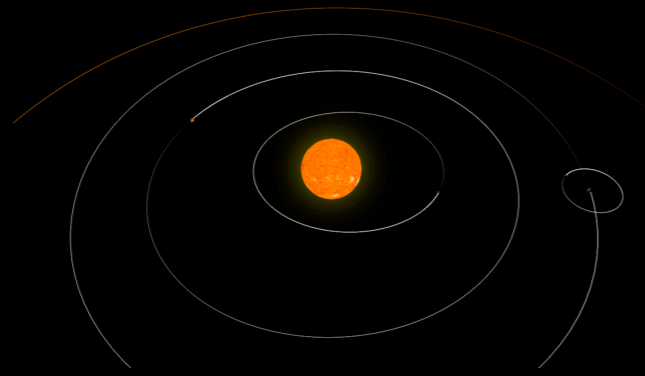
	ASTROLOGY		MAYA SPACETIME
	AZTEC RITUALS		ORACLE BONES
	CASTING LOTS		ORACLE OF DELPHI
	COMETS		ROMAN AUGURY
	EGYPTIAN STATUE		TAROT
	HARUSPICY		TASSEOGRAPHY
	IFA		

see "Roman Bird Augury" video on 





#NON-RANDOM



Celestial Motion

#RANDOMIZED



Ifa

#HUMAN



Egyptian "Bobble Head"

#RANDOM

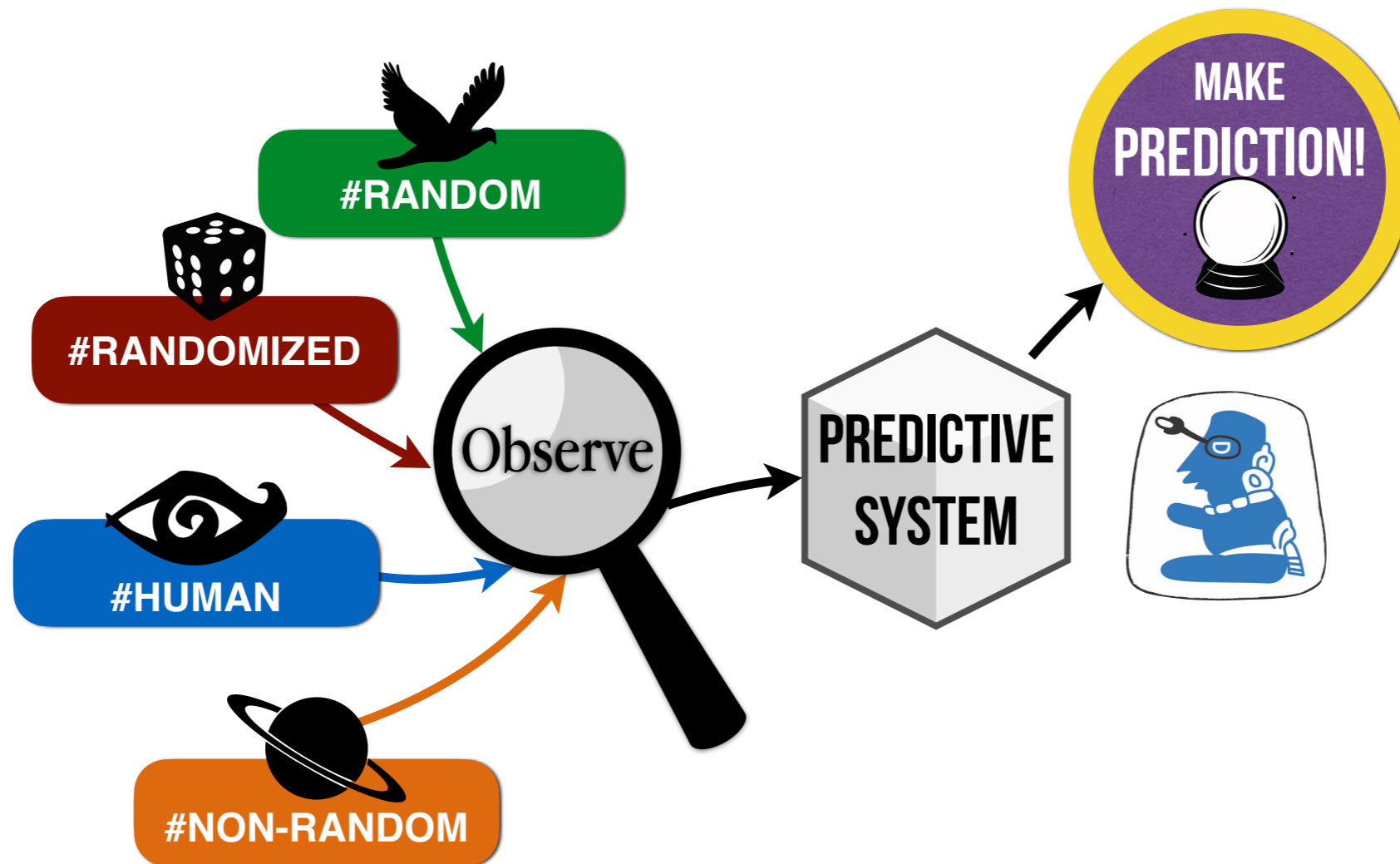


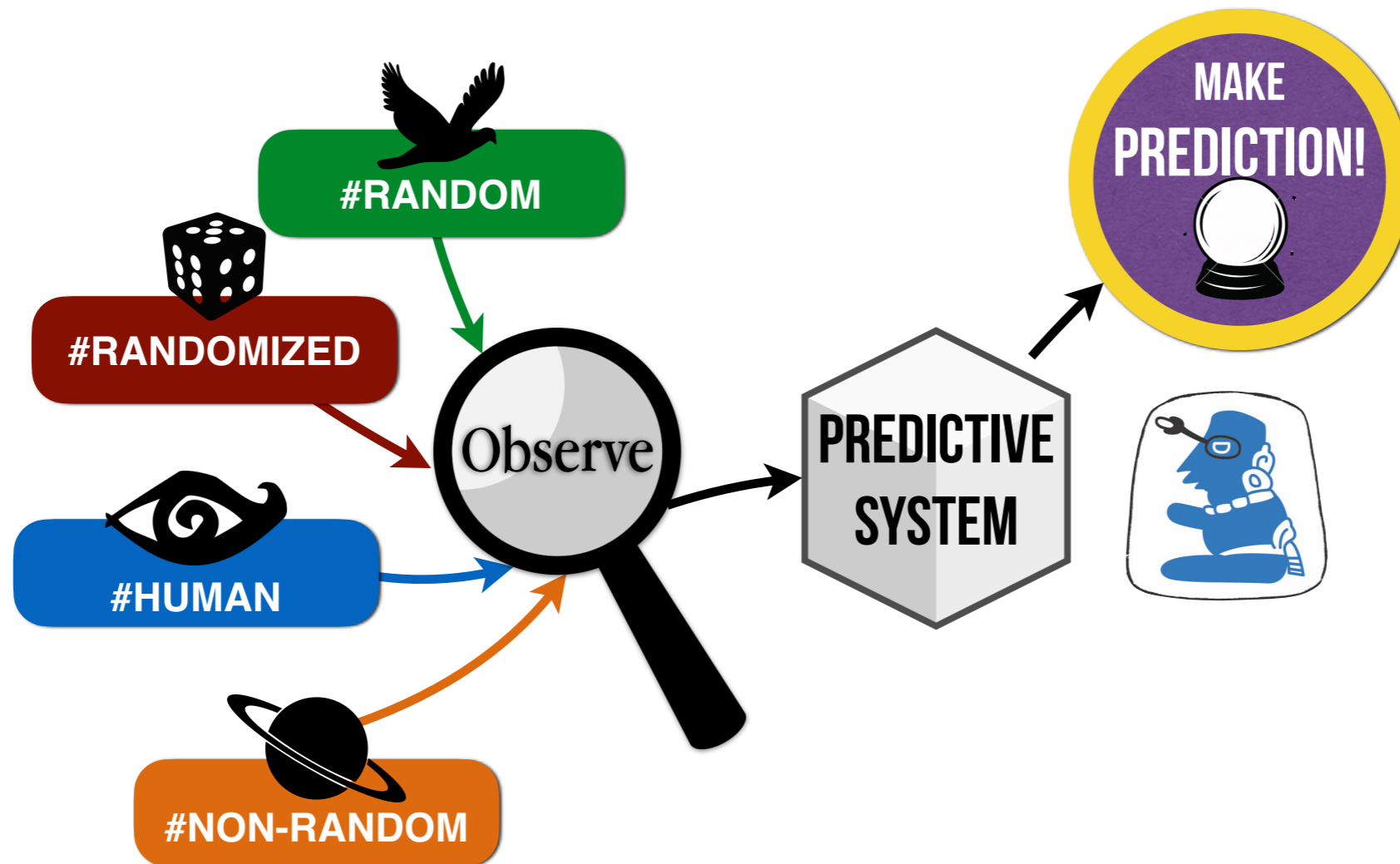
Comets of Doom

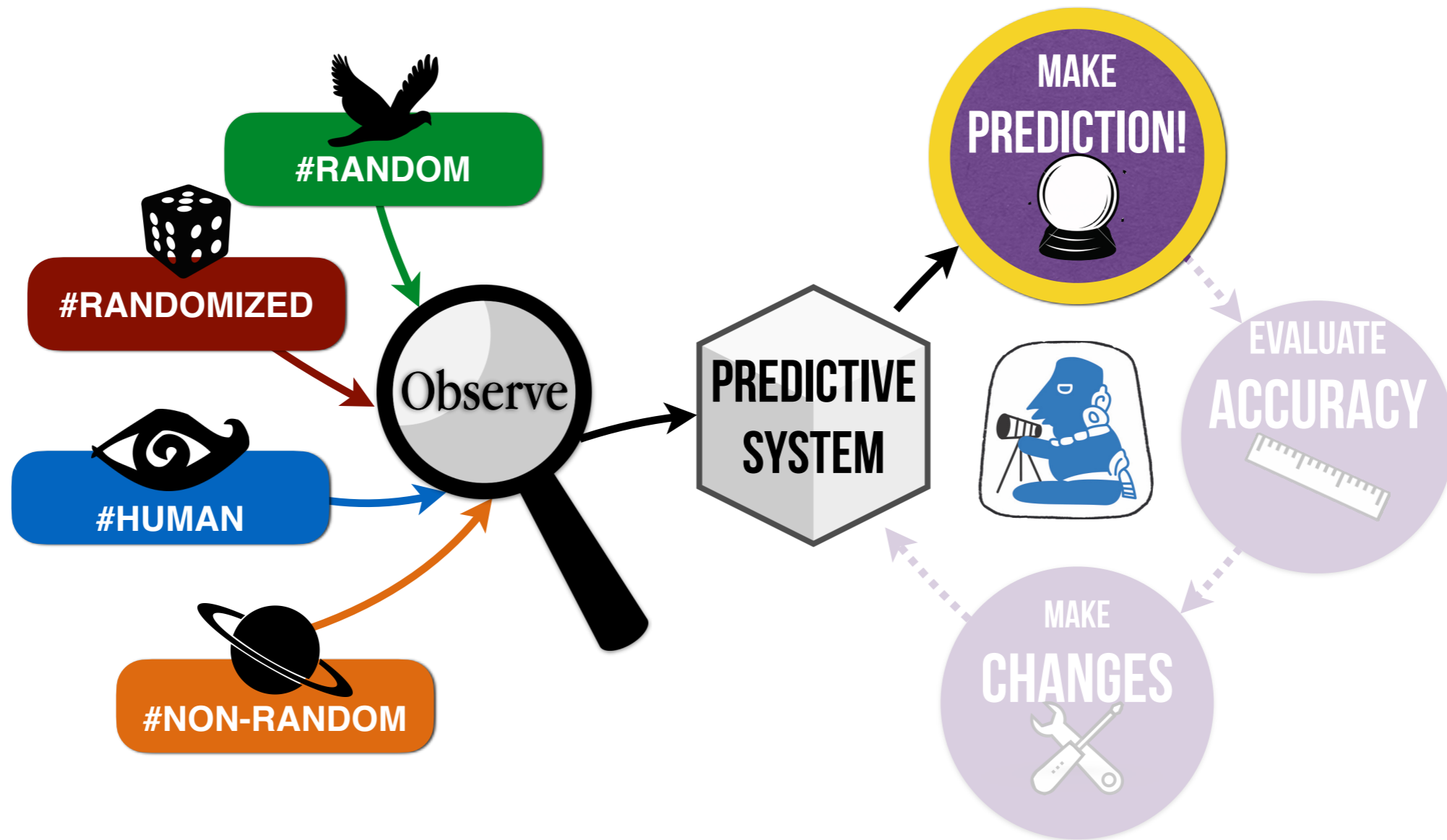


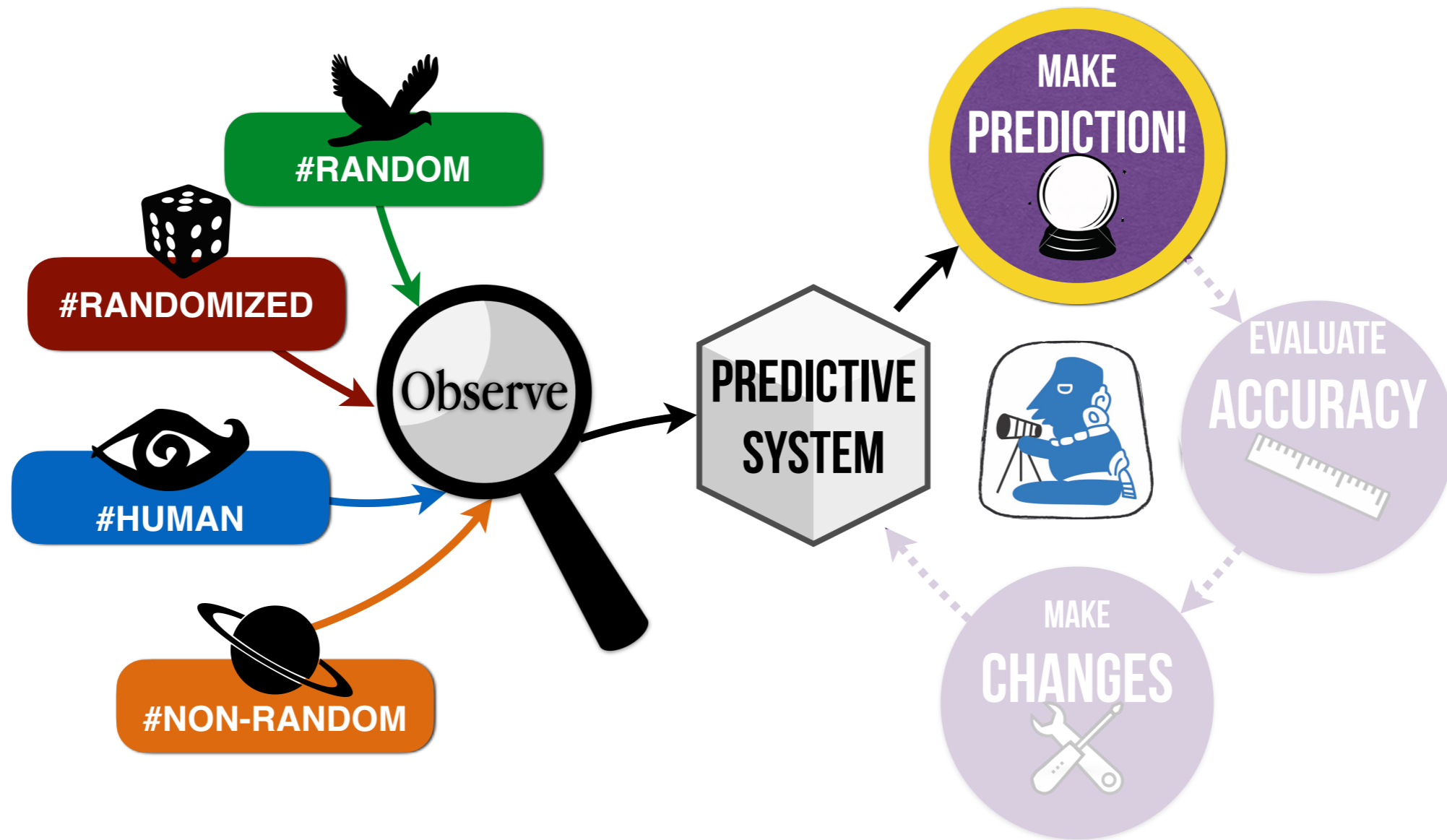
#HUMAN

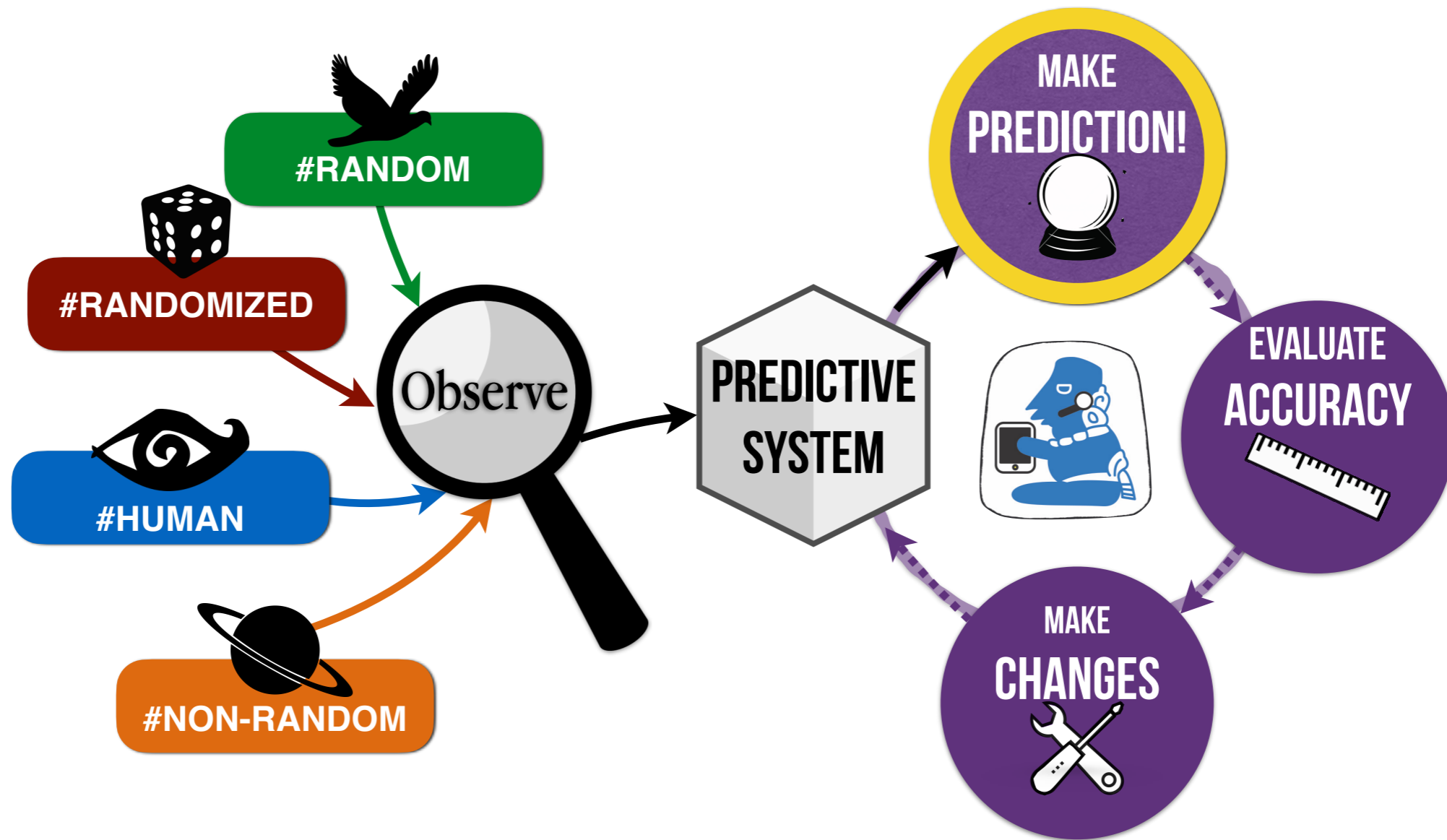
Ancient Egyptian Divination, featuring Prof. Peter der Manuelian (Harvard Semitic Museum)

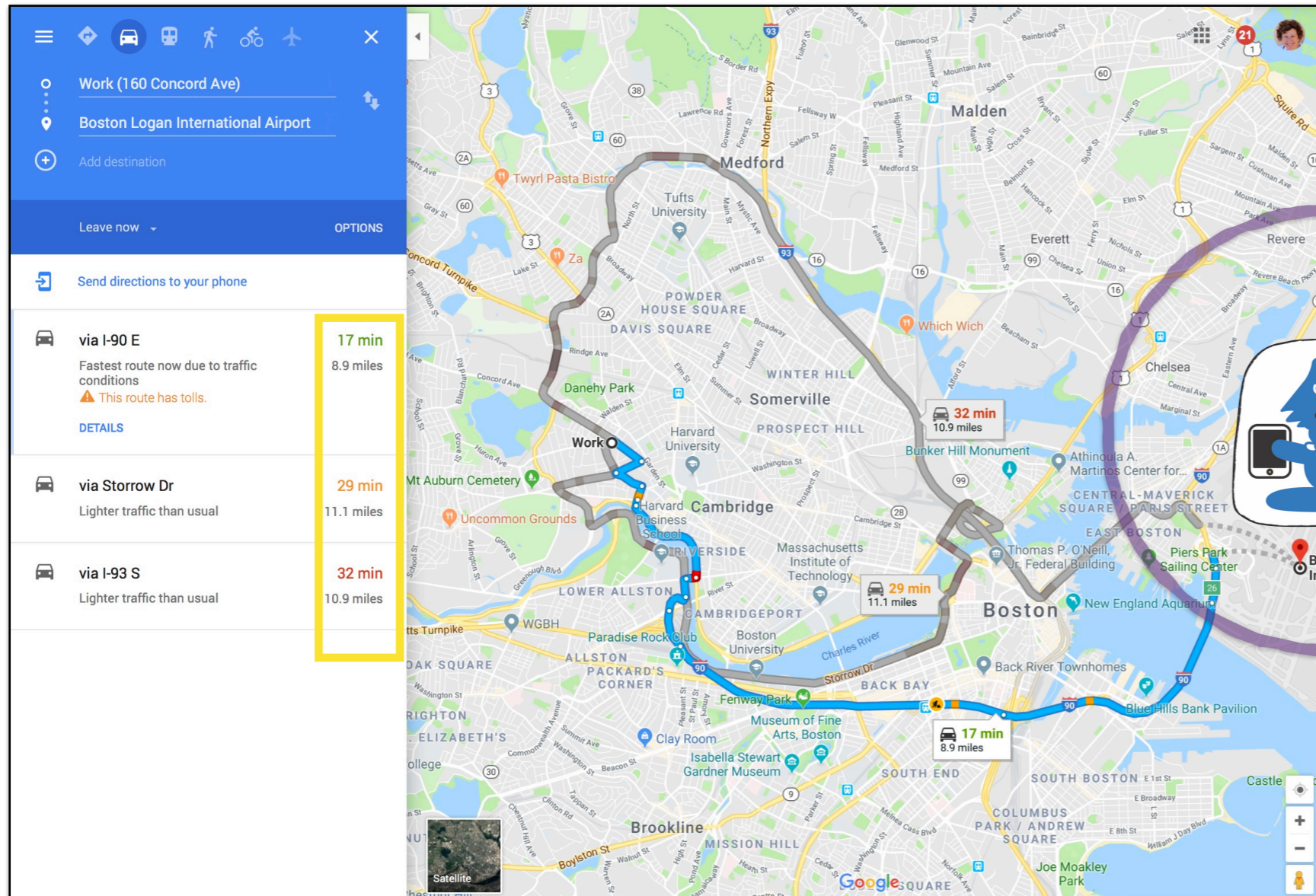












“Most companies who do live traffic **compare** their predictions against actual time in traffic to tune their algorithms and data sources. The likely result of this is that the companies who have access to the best usage data ... are likely to end up with the best predictions in the medium to long term.”



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PATHO
A project to track the evolution of science

LabXchange

Indian Mathematics
European Renaissance

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Cholera Map



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Coming Soon

Interactive Resource

video(s)

edX available on edX

LabXchange available on LabXchange



PATH TO

A project to track the evolution of science

Phenomenon

Observation*

Data

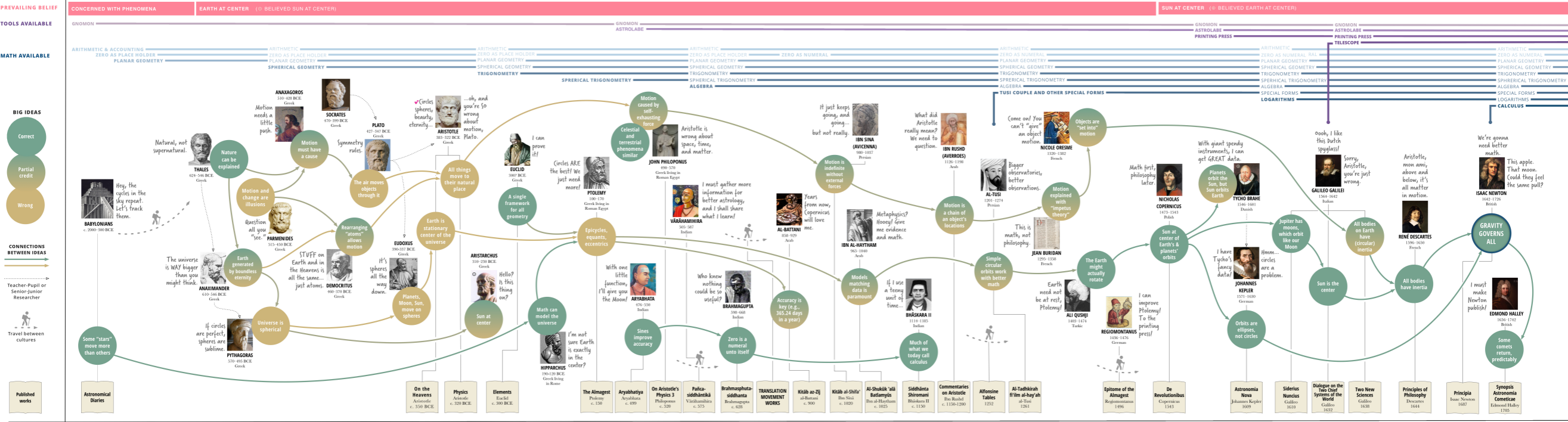
Rule

Theory

Explanation

Prediction

The Path to Newton



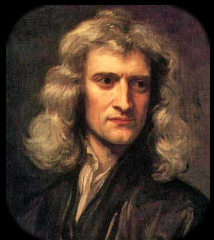
© Harvard University, created by Alyssa Goodman, Jais Brohinsky, Drew Lichtenstein & Katie Peck. re-use is allowed, with attribution, version 1, 2019

or, Experiment

[demo: path-to.org]

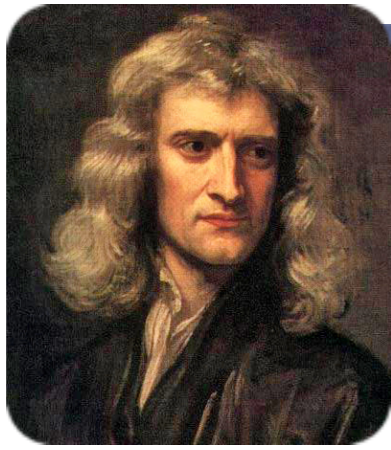


"When Knowledge Conquered Fear"



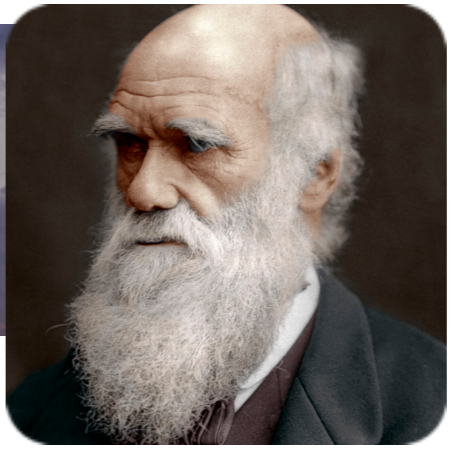
"When Knowledge Conquered Fear" is the third episode of the American documentary television series *Cosmos: A Spacetime Odyssey*. It premiered on March 23, 2014 on Fox, and premiered on March 24, 2014 on National Geographic Channel. [Wikipedia]. [IMDB link](#)
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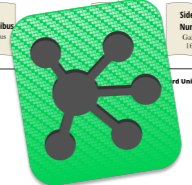
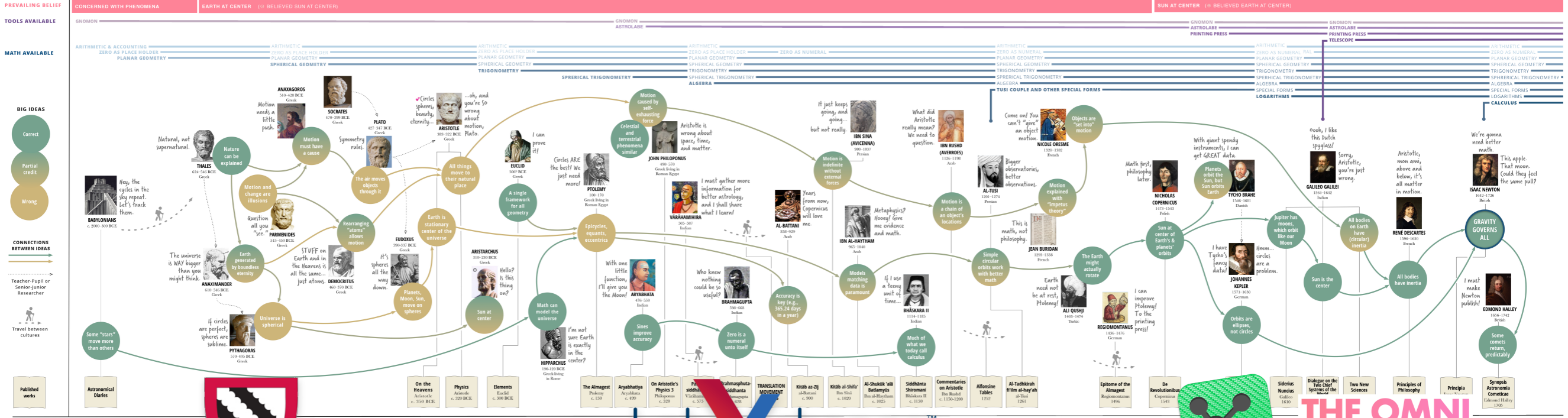


PATH TO

A project to track the evolution of science



The Path to Newton



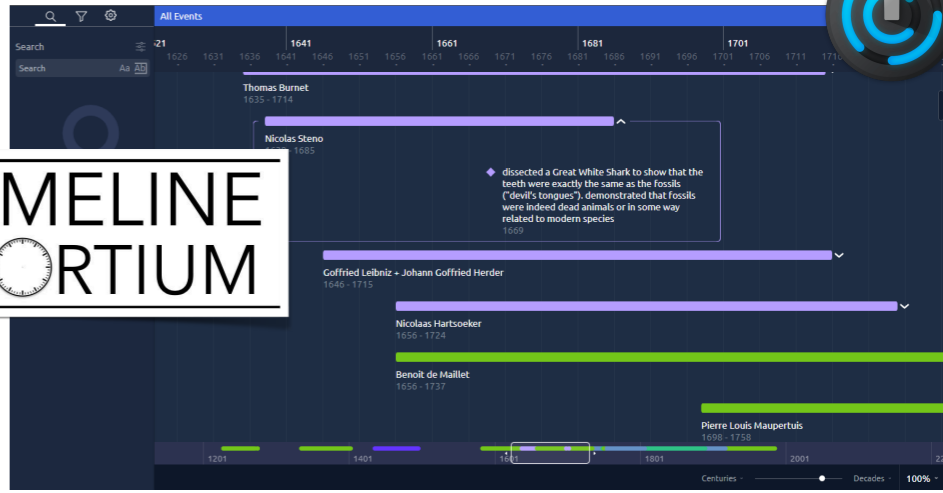
THE OMNI SHOW



Important Figures on the Path to Darwin

Figure	Birth Date	Death Date	Time of Relevance	Rationale for Time of Relevance	Idea/Discovery/Relevance
Anaximander of Miletus	-610	-546	-605	Around when "On Nature" poem was published. No exact dates, I'm just guessing	proposed that the first ever animals lived in water and that the first land-dwelling ancestors of mankind must have been born in water and spent some time on land. Associated humans with fish but they also required nursing
Pythagoras	-570	-495	-550	Estimate provided by [link] for sperm/performationism	"likeness" and spermism: an obsolete biological theory that stated that sperm contained the preformed germs
Aristotle	-384	-322	-375	ESTIMATE: Generations of Aristotle was published in the "later part of the fourth century B.C." (source)	Perfect forms do exist as extrapolations of our imagination. We create perfection in our own minds and we from nature, recognized a close connection between an organism's form and function (what we call "design" attribute to any divine cause. Inspired the dominant belief in the middle ages of the "Great Chain of Being" "Generations of Animals"
Zhuang Zhou	-369	-286	-290 B.C.	On the Generation of An...	embryo.asu.edu said that biological species were not fixed and could change over time, in resp m regarded human nature and the heavens

The TIMELINE CONSORTIUM



Phenomenon Observation Data Rule Theory Explanation Prediction

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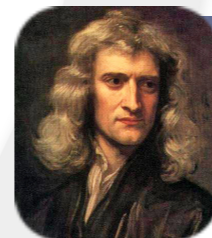


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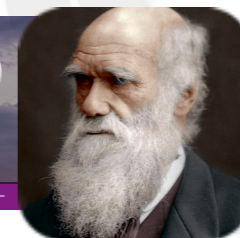
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March 11, 2020 was definitely the most surreal day of my life teaching at Harvard, so far.

Prediction: Day 7

opening remarks on COVID-19 & plans for the rest of GenEd1119

quick review of outdoor Navigation Exercise



questions about “Prediction in Space & Time” re:Navigation, *and Epidemiology*

John Snow & Cholera (edX highlights & more)

Student research/discussion re:COVID-19 using survey at tinyurl.com/gened1112covid19

Modeling the spread of epidemics, and uncertainty

Bookkeeping SIR Models SEIR Models Agent-based models AI models

Prediction and decision in the face of uncertainty: COVID-19 and Harvard (discussions)

Logistics post-Spring-Break

Special Guest: geneticist **Dr. Immaculata DeVivo**, Professor in the Department of Epidemiology at the Harvard T.H. Chan School of Public Health and at Harvard Medical School



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Welcome to HarvardX's PredictionX!

Mini-Course: John Snow and the Cholera Outbreak of 1854

Support



John Snow & Cholera (edX highlights & more)



PredictionX: John Snow and the Cholera Outbreak of 1854



Snow and Cholera



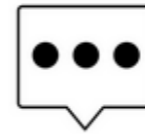
Expert Conversations



The Map



Timeline



Extra Material

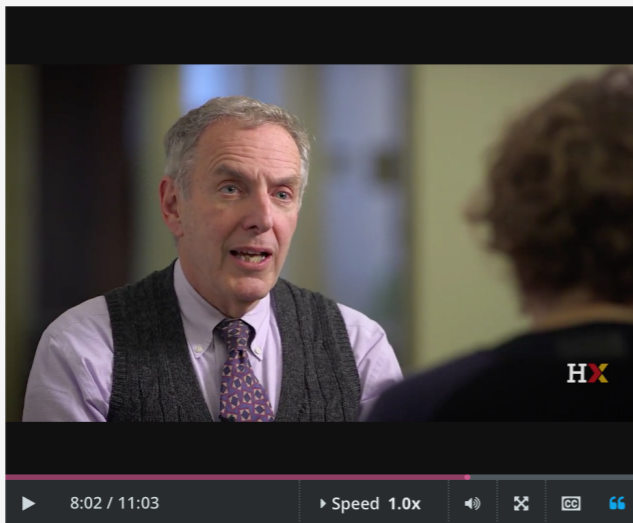


Assessments



PredictionX

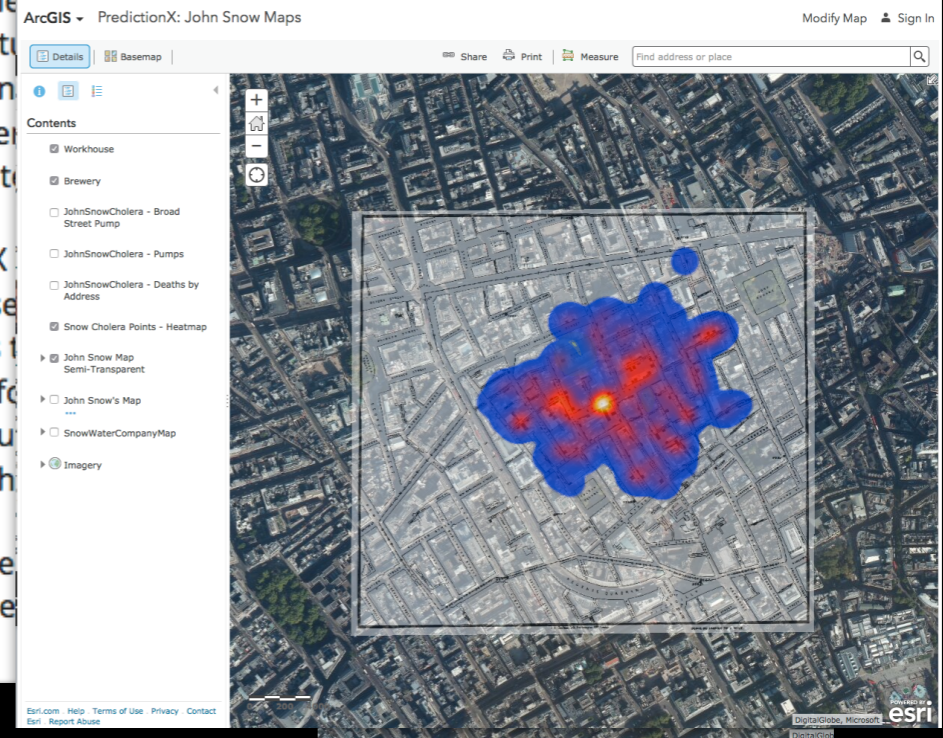
A Conversation with Experts



Video
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Transcripts
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JOHN SNOW SOCIETY mag.
ROSALIND: Yes.
So he had, if you like, he'd got the data.
And this was just another way of demonstrating it.
It wasn't how he solved the outbreak.
DON: When I talk to my students about this, I always ask them, **so did John Snow perform a case control study,** which is fundamental in epidemiology.
It's the greatest tool for working up outbreaks that we have.
In a case control study, you study the exposure of the cases, in this case, water pumps, and the exposure of the controls: the people who were



featuring Don Goldmann, AG & Rosalind Stanwell-Smith

John Snow & Cholera (maps)





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- ▶ Uncertainty

Earth

- ▶ Climate & Energy
- ▶ Climate Policy
- ▶ Tent Tarot
- ▶ Earthquakes

Space

- ▶ Futures of our Universe
- ▶ SETI

Coming Soon

Interactive Resource

video(s)

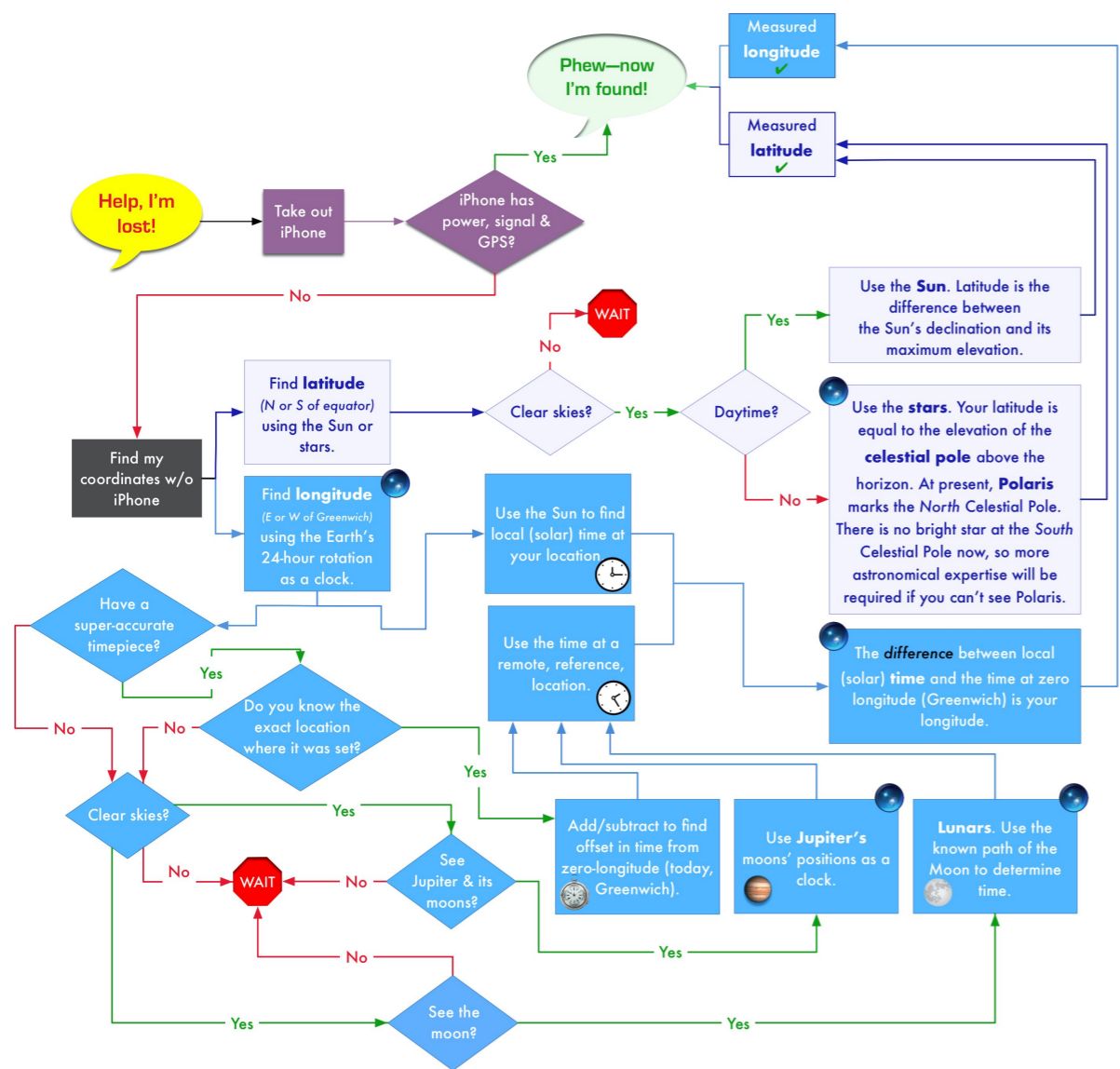
available on edX

available on LabXchange




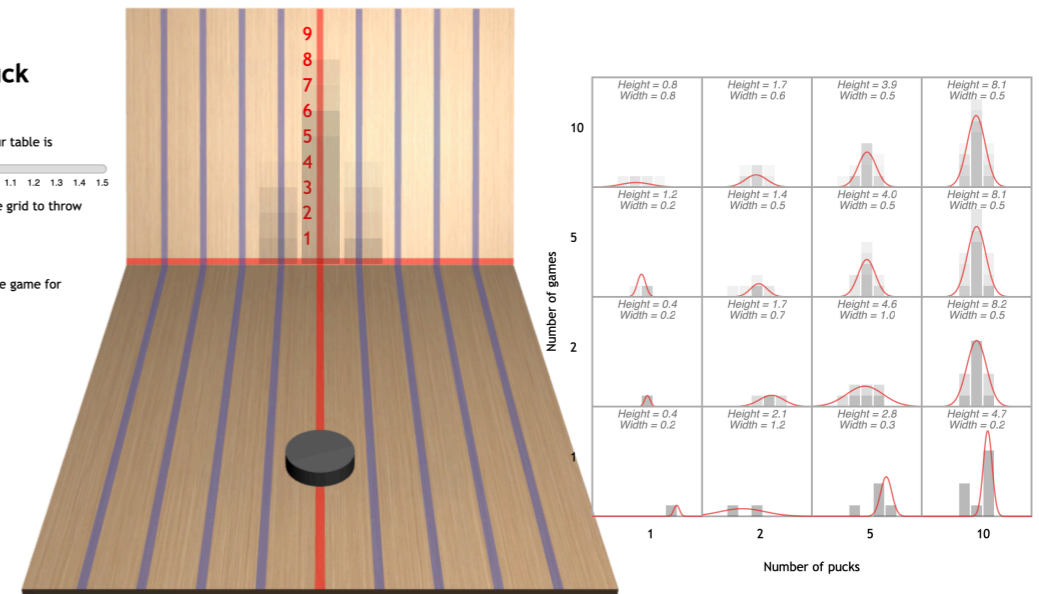


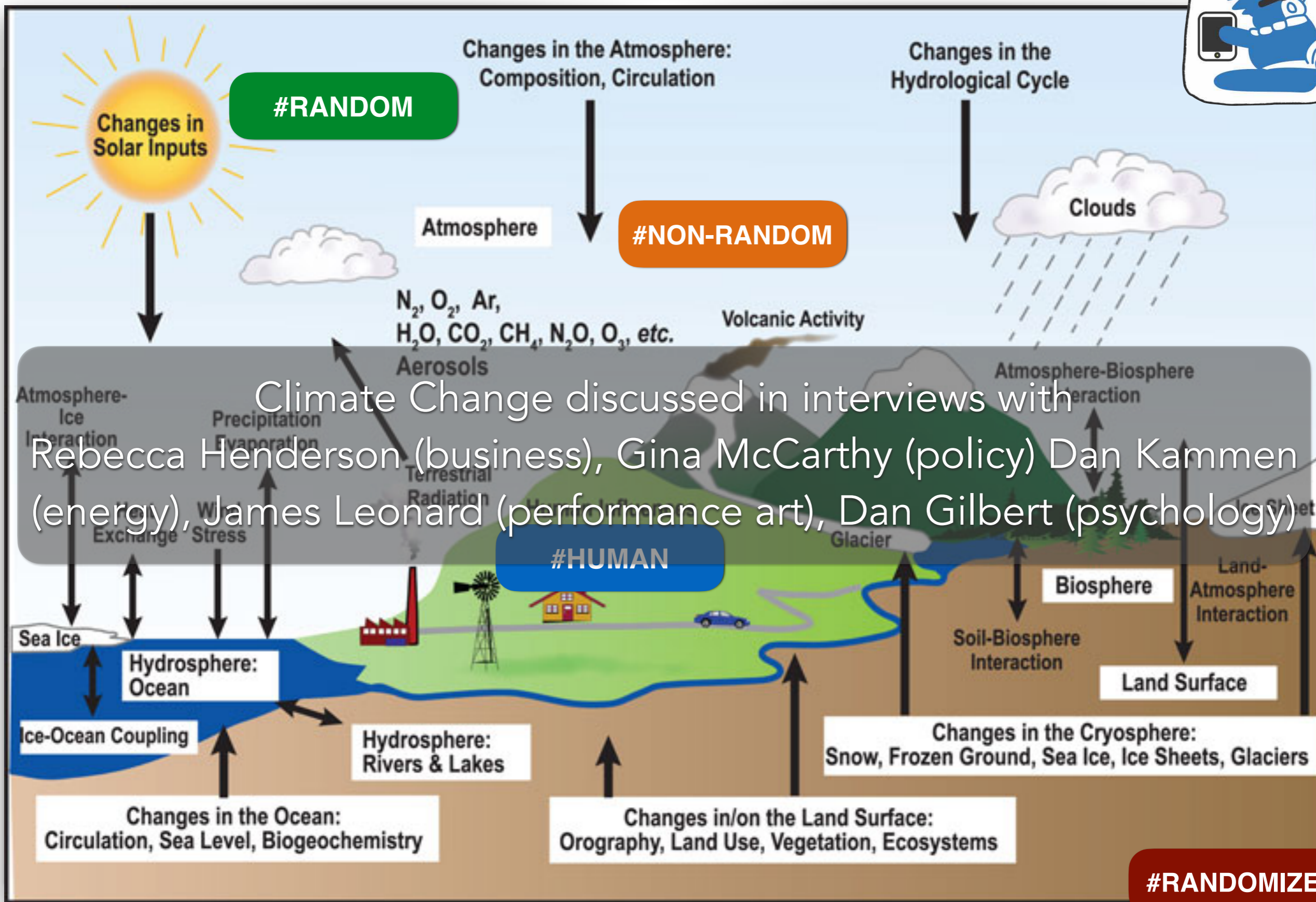
PREDICTIONX



Slide-the-puck

1. Decide how rough your table is

2. Click anywhere on the grid to throw the puck
3. Click [here](#) to finish the game for you





WGBH 2008

PREDICTIONX

2011



2014

HarvardX

edX

2015



HARVARD COLLEGE
Freshman Seminar Program

2016



2017

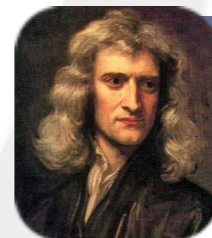


The TIMELINE
CONSORTIUM



2019

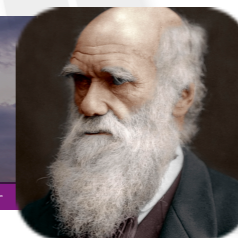
**Harvard College
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2018

PATH TO
A project to track the evolution of
science

2019



2020

LabXchange™
Science and learning—connected.

2020



WIX



2021






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The Prediction Project
Thoughts, Resources, Course, Seminar and Someday a Book



WELCOME PREDICTION TOPICS COURSES TALKS COMMENTARY CREDITS

- Essays
- PREDICTIONX
- Essentials: Ways to Frame Discussions about Prediction
 - Omens & Oracles
 - Rise of Theory
 - Modern Predictive Systems
 - Sneak Preview: Video Interviews with Experts
 - Agustin Rayo (philosophy)
 - Avi Loeb (astronomy)
 - Ben Shneiderman (artificial intelligence)
 - Brendan Meade (earthquakes) and Susan Murphy (computer science)
 - Daniel Gilbert (psychology)

HOME / PREDICTIONX / PREDICTION TOPICS / MODERN PREDICTIVE SYSTEMS / SNEAK PREVIEW: VIDEO INTERVIEWS WITH EXPERTS /

Daniel Gilbert (psychology and prediction)

Daniel Gilbert is a Professor of Psychology at Harvard University. In this conversation with Professor Goodman, he discusses the ways in which people understand -- or fail to understand -- prediction in their daily lives.



WIX

The Prediction Project
The Past and Present of the Future

f t y i o

HOME ABOUT PREDICTION TOPICS COURSES COMMENTARY CREDITS

Commentary

Title Uncertain Risks

Possible Tagline
We know how to express risk and uncertainty with numbers, but it's not always easy to take rational actions based on those numbers.

Text
"One shot." Any fan of the classic film, *The Deer Hunter*, will recognize that two-word phrase, and its double-meaning. *One shot* to kill a deer is humane, and *one shot* in the game of Russian Roulette is all that's needed to kill its player--or not. The odds of shooting a deer with a single shot while hunting depend on the skill of the hunter, the weather, the quality of the rifle, and more--and so are quite hard to estimate with great certainty. The odds of being shot in the head in a single round of Russian Roulette are, on the other hand, very easy to estimate--they are *exactly* 1 in 6. *One* bullet loaded into a *six*-chamber gun barrel that's then spun to a random stopping point and then fired by the player at their own head can be expected to blow a hole in the player's head *exactly* one in six times. This kind of certainty when assessing risk is extremely uncommon. Life is usually much more like hunting--with many factors influencing risk, so that estimating odds is hard, and uncertain.

Life is filled with decisions about risk in the face of uncertainty, so misunderstanding the words "risk" and "uncertainty" can be dangerous. These terms are commonly used in everyday life, where we talk about activities being "safe" or "risky", and we talk about being "sure" or "uncertain," but we don't usually attach specific numerical odds to such statements. Instead, **psychologists like Dan Gilbert tell us**, we humans typically group likelihood into three categories: it will happen; it won't happen; and it might happen. Percentages and numerical odds are relatively new constructs for the human race, so using the word "might" to capture everything between "will" and "won't" is understandable. But, in some cases, numbers can--and should--mitigate fear.

Our non-naturally-mathematical minds are not just bad at estimating and understanding nuanced risk: they also despise uncertainty. Evolution has left us survivors with a "fight or flight" response to fear and risk, so it can be difficult--even for those of us with plenty of mathematical training--to not let emotion overrule calculation.

What *does* it look like, though, to see risk and uncertainty through a mathematical lens, unclouded by emotion? Let's consider the answer to that question using a morbid but fully unambiguous example: the risk of death.



Dan Gilbert
Professor of Psychology
Harvard University

Transcript

0:01 Hi, I'm Dan Gilbert in the psychology department of Harvard University.
0:04 And one of the things that I have studied for pretty much the last three decades is
0:08 how people make predictions about what will make them happy,
0:11 how happy it'll make them, and how long that happiness will last.
0:15 And as you might expect, they don't always do a good job of it,
0:18 which gives me a job to do. 12:35
0:20 >> Welcome, Dan

PREDICTIONX

Prediction & Psychology
with Daniel Gilbert

SPECIAL GUEST

2:44

Would You Rather 1 Million or 1 Billion Dollars? - Daniel...

Spotify

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PODCAST EPISODE

Psychology and Prediction with Daniel Gilbert
PredictionX

Aug 31 - 40 mins left

Episode Description

Daniel Gilbert is a Professor of Psychology at Harvard University. In this conversation with Professor Goodman, he discusses the ways in which people understand -- or fail to understand -- prediction in their daily lives.

predictionofficial · Following
Harvard University

predictionofficial Daniel Gilbert is a Professor of Psychology at Harvard University. In this interview with Professor Alyssa Goodman, he discusses the ways in which people understand -- or fail to understand -- prediction in their daily lives.

Watch the full interview at PredictionX.org

#dangilbert #harvard #harvarduniversity #psychology #money #financialliteracy #investment

1d

Liked by evageliakouroupi and others

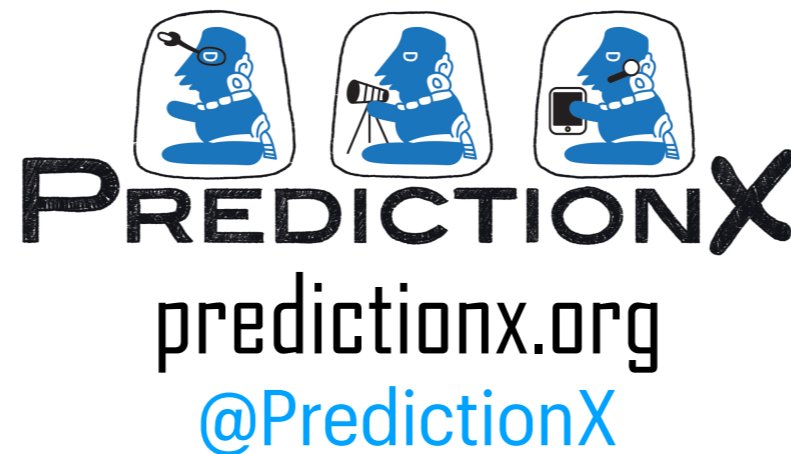
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Alyssa Goodman

Harvard University
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path-to.org

This presentation contained a secret preview of the “new” PredictionX.org site, to be launched October 2020.